

**THOMAS WALMSLEY & SONS LTD**

**ATLAS FORGE**

**BOLTON**

**LANCASHIRE**

**ENGLAND**

**PRODUCERS  
SINCE 1866 OF**



**ATLAS**

**GENUINE HAND PUDDLED  
WROUGHT IRON**

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CHAPTER I

The first thing I noticed when I stepped out of the train was the cold. It was a sharp, biting cold that seemed to penetrate my coat. I shivered as I walked towards the station entrance, my hands tucked into my pockets. The air was thick with the scent of coal and the distant hum of machinery. I had heard that the city was a place of contrasts, a place where the old and the new coexisted in a delicate balance. But now, standing here, I felt like I had stepped into a different world altogether.

The station was a grand structure, its arches and columns reaching towards the sky. The platform was crowded with people, some waiting for the train, others walking with purpose. I caught a glimpse of a man in a top hat, his cane tapping against the ground. He looked at me with a curious expression, as if he were trying to figure out who I was. I turned away, feeling a little self-conscious. This was my first time in the city, and I was already feeling like an outsider.

I walked along the street, the cobblestones beneath my feet creating a rhythmic pattern. The buildings were tall and imposing, their windows reflecting the light. I saw a group of children playing in a square, their laughter echoing through the air. They were dressed in simple, practical clothes, but there was a sense of joy and freedom in their movements. I stopped for a moment, watching them play. It was a strange feeling, being so close to life and yet so far from it. I had come to this city for a reason, but I wasn't sure I was ready for what I might find.

The sun was low in the sky, casting long shadows across the street. The air was filled with the sounds of the city, the clatter of horse-drawn carriages, the distant bells of a church. I felt a sense of awe and wonder, as if I had discovered a new world. The city was a place of secrets and mysteries, a place where every corner held a story. I was determined to uncover those secrets, to see what lay beneath the surface. I took a deep breath and continued on my way, my heart pounding with anticipation.

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THE END



Wrought iron can be readily worked, hot or cold, and it may be welded easily by forging or by any other commonly used process; its machining properties are excellent.

There are, of course, cheaper substitutes for wrought iron, and these may at first glance appear a tempting proposition. But, when maintenance and replacement costs are considered, a very different picture is presented, for wrought iron gives you longer and more satisfactory service at a much lower true cost.

On the other hand, where material is likely to be exposed to natural corrosive hazards, it is often unnecessary to go to the great expense of specifying stainless steel or special alloy steel. Genuine wrought iron, with its great ability to resist corrosion, will give long and dependable service with a considerable reduction in cost.

It may be of interest to give a list of some of the more important uses of wrought iron. This list is by no means exhaustive, but serves as a guide to the spheres in which wrought iron is the best material for the job.

Fencing, railing work and gates  
Cables for ships, moorings and defence work  
Chains, lifting tackle, haulage gear, sling hooks and shackles  
Railroad materials, signal and point rodding, levers and  
drawbars  
Nuts and bolts  
General ship-building and fittings  
Drop forgings and stampings  
Tubes and fittings (especially for underground work)  
Railcar accessories and repairs  
Boiler stay-bars and tie-bars  
Crank shafts, picking and tappet shafts and general textile  
machinery work  
Agricultural machinery, horse shoe manufacture and general  
smithy and engineering work

It is hoped that not only has this foreword been of interest, but that it may have answered some of the problems presented when the question arises as to which is the best suited and most dependable material for your particular application.





## S P E C I F I C A T I O N S

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Our wrought iron is rolled and supplied to the following specifications

American Society for Testing Materials

American Society of Mechanical Engineers

Association of American Railroads

U.S. Federal Specifications Board

U.S. Coast Guard

U.S. Navy Department

British Standard Specifications

Lloyd's Register of Shipping

Naval Construction Department, Admiralty

British Transport Commission, Railways

Board of Trade

Crown Agents for the Colonies

Mersey Docks and Harbour Board

Institute of Textile Engineers

Institution of Gas Engineers

Indian Railways

South African Railways

Atlas Brands

Wrought Iron

ROLLING  
SCHEDULE

ROUNDS

SQUARES



# FLATS - SQUARE EDGE



THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
3/16	5/8	.39
"	3/4	.47
"	7/8	.55
"	1	.62
"	1.1/8	.70
"	1.1/4	.78
"	1.3/8	.86
"	1.1/2	.94
"	1.5/8	1.02
"	1.3/4	1.09
"	1.7/8	1.17
"	2	1.25
"	2.1/4	1.41
"	2.1/2	1.56
"	2.3/4	1.72
"	3	1.87

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
1/4	5/8	.52
"	3/4	.63
"	7/8	.73
"	1	.83
"	1.1/8	.94
"	1.1/4	1.04
"	1.3/8	1.15
"	1.1/2	1.25
"	1.5/8	1.35
"	1.3/4	1.46
"	1.7/8	1.56
"	2	1.67
"	2.1/4	1.88
"	2.1/2	2.08
"	2.3/4	2.29
"	3	2.50
"	3.1/4	2.71
"	3.1/2	2.92
"	3.3/4	3.13
"	4	3.33
"	4.1/2	3.75
"	5	4.17
"	5.1/2	4.58
"	6	5.00

5/16	5/8	.65
"	3/4	.78
"	7/8	.91
"	1	1.04
"	1.1/8	1.17
"	1.1/4	1.30
"	1.3/8	1.43
"	1.1/2	1.56
"	1.5/8	1.69
"	1.3/4	1.82
"	1.7/8	1.95
"	2	2.08
"	2.1/4	2.34
"	2.1/2	2.60
"	2.3/4	2.86
"	3	3.12
"	3.1/4	3.39
"	3.1/2	3.65
"	3.3/4	3.91
"	4	4.17
"	4.1/2	4.69
"	5	5.21
"	5.1/2	5.73
"	6	6.25

3/8	5/8	.78
"	3/4	.94
"	7/8	1.09
"	1	1.25
"	1.1/8	1.41
"	1.1/4	1.56
"	1.3/8	1.72
"	1.1/2	1.87
"	1.5/8	2.03
"	1.3/4	2.19
"	1.7/8	2.34
"	2	2.50
"	2.1/4	2.81
"	2.1/2	3.12
"	2.3/4	3.44
"	3	3.75
"	3.1/4	4.06
"	3.1/2	4.37
"	3.3/4	4.69
"	4	5.00
"	4.1/2	5.62
"	5	6.25
"	5.1/2	6.87
"	6	7.50

# PLATE - 27

1910

STATION	TIME	TEMP.	WIND	WAVE	SEA
1	0.0	10.0	0.0	0.0	0.0
2	0.1	10.1	0.1	0.1	0.1
3	0.2	10.2	0.2	0.2	0.2
4	0.3	10.3	0.3	0.3	0.3
5	0.4	10.4	0.4	0.4	0.4
6	0.5	10.5	0.5	0.5	0.5
7	0.6	10.6	0.6	0.6	0.6
8	0.7	10.7	0.7	0.7	0.7
9	0.8	10.8	0.8	0.8	0.8
10	0.9	10.9	0.9	0.9	0.9
11	1.0	11.0	1.0	1.0	1.0
12	1.1	11.1	1.1	1.1	1.1
13	1.2	11.2	1.2	1.2	1.2
14	1.3	11.3	1.3	1.3	1.3
15	1.4	11.4	1.4	1.4	1.4
16	1.5	11.5	1.5	1.5	1.5
17	1.6	11.6	1.6	1.6	1.6
18	1.7	11.7	1.7	1.7	1.7
19	1.8	11.8	1.8	1.8	1.8
20	1.9	11.9	1.9	1.9	1.9
21	2.0	12.0	2.0	2.0	2.0
22	2.1	12.1	2.1	2.1	2.1
23	2.2	12.2	2.2	2.2	2.2
24	2.3	12.3	2.3	2.3	2.3
25	2.4	12.4	2.4	2.4	2.4
26	2.5	12.5	2.5	2.5	2.5
27	2.6	12.6	2.6	2.6	2.6
28	2.7	12.7	2.7	2.7	2.7
29	2.8	12.8	2.8	2.8	2.8
30	2.9	12.9	2.9	2.9	2.9
31	3.0	13.0	3.0	3.0	3.0
32	3.1	13.1	3.1	3.1	3.1
33	3.2	13.2	3.2	3.2	3.2
34	3.3	13.3	3.3	3.3	3.3
35	3.4	13.4	3.4	3.4	3.4
36	3.5	13.5	3.5	3.5	3.5
37	3.6	13.6	3.6	3.6	3.6
38	3.7	13.7	3.7	3.7	3.7
39	3.8	13.8	3.8	3.8	3.8
40	3.9	13.9	3.9	3.9	3.9
41	4.0	14.0	4.0	4.0	4.0
42	4.1	14.1	4.1	4.1	4.1
43	4.2	14.2	4.2	4.2	4.2
44	4.3	14.3	4.3	4.3	4.3
45	4.4	14.4	4.4	4.4	4.4
46	4.5	14.5	4.5	4.5	4.5
47	4.6	14.6	4.6	4.6	4.6
48	4.7	14.7	4.7	4.7	4.7
49	4.8	14.8	4.8	4.8	4.8
50	4.9	14.9	4.9	4.9	4.9
51	5.0	15.0	5.0	5.0	5.0
52	5.1	15.1	5.1	5.1	5.1
53	5.2	15.2	5.2	5.2	5.2
54	5.3	15.3	5.3	5.3	5.3
55	5.4	15.4	5.4	5.4	5.4
56	5.5	15.5	5.5	5.5	5.5
57	5.6	15.6	5.6	5.6	5.6
58	5.7	15.7	5.7	5.7	5.7
59	5.8	15.8	5.8	5.8	5.8
60	5.9	15.9	5.9	5.9	5.9
61	6.0	16.0	6.0	6.0	6.0
62	6.1	16.1	6.1	6.1	6.1
63	6.2	16.2	6.2	6.2	6.2
64	6.3	16.3	6.3	6.3	6.3
65	6.4	16.4	6.4	6.4	6.4
66	6.5	16.5	6.5	6.5	6.5
67	6.6	16.6	6.6	6.6	6.6
68	6.7	16.7	6.7	6.7	6.7
69	6.8	16.8	6.8	6.8	6.8
70	6.9	16.9	6.9	6.9	6.9
71	7.0	17.0	7.0	7.0	7.0
72	7.1	17.1	7.1	7.1	7.1
73	7.2	17.2	7.2	7.2	7.2
74	7.3	17.3	7.3	7.3	7.3
75	7.4	17.4	7.4	7.4	7.4
76	7.5	17.5	7.5	7.5	7.5
77	7.6	17.6	7.6	7.6	7.6
78	7.7	17.7	7.7	7.7	7.7
79	7.8	17.8	7.8	7.8	7.8
80	7.9	17.9	7.9	7.9	7.9
81	8.0	18.0	8.0	8.0	8.0
82	8.1	18.1	8.1	8.1	8.1
83	8.2	18.2	8.2	8.2	8.2
84	8.3	18.3	8.3	8.3	8.3
85	8.4	18.4	8.4	8.4	8.4
86	8.5	18.5	8.5	8.5	8.5
87	8.6	18.6	8.6	8.6	8.6
88	8.7	18.7	8.7	8.7	8.7
89	8.8	18.8	8.8	8.8	8.8
90	8.9	18.9	8.9	8.9	8.9
91	9.0	19.0	9.0	9.0	9.0
92	9.1	19.1	9.1	9.1	9.1
93	9.2	19.2	9.2	9.2	9.2
94	9.3	19.3	9.3	9.3	9.3
95	9.4	19.4	9.4	9.4	9.4
96	9.5	19.5	9.5	9.5	9.5
97	9.6	19.6	9.6	9.6	9.6
98	9.7	19.7	9.7	9.7	9.7
99	9.8	19.8	9.8	9.8	9.8
100	9.9	19.9	9.9	9.9	9.9



# FLATS - SQUARE EDGE

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
7/16	3/4	1.09
"	7/8	1.28
"	1	1.46
"	1.1/8	1.64
"	1.1/4	1.82
"	1.3/8	2.01
"	1.1/2	2.19
"	1.5/8	2.37
"	1.3/4	2.55
"	1.7/8	2.73
"	2	2.92
"	2.1/4	3.28
"	2.1/2	3.65
"	2.3/4	4.01
"	3	4.37
"	3.1/4	4.74
"	3.1/2	5.10
"	3.3/4	5.47
"	4	5.83
"	4.1/2	6.56
"	5	7.29
"	5.1/2	8.02
"	6	8.75

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
1/2	5/8	1.04
"	3/4	1.25
"	7/8	1.46
"	1	1.67
"	1.1/8	1.87
"	1.1/4	2.08
"	1.3/8	2.29
"	1.1/2	1.50
"	1.5/8	2.71
"	1.3/4	2.92
"	1.7/8	3.12
"	2	3.33
"	2.1/4	3.75
"	2.1/2	4.17
"	2.3/4	4.58
"	3	5.00
"	3.1/4	5.42
"	3.1/2	5.83
"	3.3/4	6.25
"	4	6.67
"	4.1/2	7.50
"	5	8.33
"	5.1/2	9.17
"	6	10.00

9/16	3/4	1.41
"	7/8	1.64
"	1	1.88
"	1.1/8	2.11
"	1.1/4	2.34
"	1.3/8	2.58
"	1.1/2	2.81
"	1.5/8	3.05
"	1.3/4	3.28
"	1.7/8	3.52
"	2	3.75
"	2.1/4	4.22
"	2.1/2	4.69
"	2.3/4	5.16
"	3	5.63
"	3.1/4	6.09
"	3.1/2	6.56
"	3.3/4	7.03
"	4	7.50
"	4.1/2	8.44
"	5	9.38
"	5.1/2	10.31
"	6	11.25

5/8	3/4	1.56
"	7/8	1.82
"	1	2.08
"	1.1/8	2.34
"	1.1/4	2.60
"	1.3/8	2.86
"	1.1/2	3.12
"	1.5/8	3.39
"	1.3/4	3.65
"	1.7/8	3.91
"	2	4.17
"	2.1/4	4.69
"	2.1/2	5.21
"	2.3/4	5.73
"	3	6.25
"	3.1/4	6.77
"	3.1/2	7.29
"	3.3/4	7.81
"	4	8.33
"	4.1/2	9.38
"	5	10.42
"	5.1/2	11.46
"	6	12.50





# FLATS - SQUARE EDGE

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
11/16	7/8	2.01
"	1	2.29
"	1.1/8	2.58
"	1.1/4	2.86
"	1.3/8	3.15
"	1.1/2	3.44
"	1.5/8	3.72
"	1.3/4	4.01
"	2	4.58
"	2.1/4	5.16
"	2.1/2	5.73
"	2.3/4	6.30
"	3	6.88
"	3.1/4	7.45
"	3.1/2	8.02
"	3.3/4	8.59
"	4	9.17
"	4.1/2	10.31
"	5	11.46
"	5.1/2	12.60
"	6	13.75

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
3/4	7/8	2.19
"	1	2.50
"	1.1/8	2.81
"	1.1/4	3.12
"	1.3/8	3.44
"	1.1/2	3.75
"	1.5/8	4.06
"	1.3/4	4.38
"	2	5.00
"	2.1/4	5.63
"	2.1/2	6.25
"	2.3/4	6.88
"	3	7.50
"	3.1/4	8.13
"	3.1/2	8.75
"	3.3/4	9.32
"	4	10.00
"	4.1/2	11.25
"	5	12.50
"	5.1/2	13.75
"	6	15.00

7/8	1	2.91
"	1.1/8	3.28
"	1.1/4	3.65
"	1.3/8	4.01
"	1.1/2	4.37
"	1.5/8	4.74
"	1.3/4	5.10
"	2	5.83
"	2.1/4	6.56
"	2.1/2	7.29
"	2.3/4	8.02
"	3	8.75
"	3.1/4	9.48
"	3.1/2	10.21
"	3.3/4	10.94
"	4	11.67
"	4.1/2	13.12
"	5	14.58
"	5.1/2	16.04
"	6	17.50

1	1.1/8	3.75
"	1.1/4	4.17
"	1.3/8	4.58
"	1.1/2	5.00
"	1.5/8	5.42
"	1.3/4	5.83
"	2	6.67
"	2.1/4	7.50
"	2.1/2	8.33
"	2.3/4	9.17
"	3	10.00
"	3.1/4	10.83
"	3.1/2	11.67
"	3.3/4	12.50
"	4	13.33
"	4.1/2	15.00
"	5	16.67
"	5.1/2	18.33
"	6	20.00





# FLATS - SQUARE EDGE

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
1.1/8	1.1/4	4.69
"	1.3/8	5.16
"	1.1/2	5.62
"	1.3/4	6.56
"	2	7.50
"	2.1/4	8.44
"	2.1/2	9.37
"	2.3/4	10.31
"	3	11.25
"	3.1/4	12.19
"	3.1/2	13.12
"	3.3/4	14.06
"	4	15.00
"	4.1/2	16.87
"	5	18.75
"	5.1/2	20.62

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
1.1/4	1.1/2	6.25
"	2	8.33
"	2.1/4	9.38
"	2.1/2	10.42
"	2.3/4	11.46
"	3	12.50
"	3.1/4	13.54
"	3.1/2	14.58
"	3.3/4	15.62
"	4	16.67
"	4.1/2	18.75
"	5	20.83
"	5.1/2	22.92

1.3/8	2	9.16
"	2.1/4	10.31
"	2.1/2	11.46
"	2.3/4	12.60
"	3	13.75
"	3.1/4	14.90
"	3.1/2	16.04
"	3.3/4	17.19
"	4	18.33
"	4.1/2	20.62
"	5	22.92
"	5.1/2	25.21

1.1/2	2	10.00
"	2.1/4	11.25
"	2.1/2	12.50
"	2.3/4	13.75
"	3	15.00
"	3.1/4	16.25
"	3.1/2	17.50
"	3.3/4	18.75
"	4	20.00
"	4.1/2	22.50
"	5	25.00
"	5.1/2	27.50

DATE	TIME	LOCATION
11/1	10:00	1000
11/1	10:15	1000
11/1	10:30	1000
11/1	10:45	1000
11/1	11:00	1000
11/1	11:15	1000
11/1	11:30	1000
11/1	11:45	1000
11/1	12:00	1000
11/1	12:15	1000
11/1	12:30	1000
11/1	12:45	1000

DATE	TIME	LOCATION
11/1	13:00	1000
11/1	13:15	1000
11/1	13:30	1000
11/1	13:45	1000
11/1	14:00	1000
11/1	14:15	1000
11/1	14:30	1000
11/1	14:45	1000
11/1	15:00	1000
11/1	15:15	1000
11/1	15:30	1000
11/1	15:45	1000

DATE	TIME	LOCATION
11/1	16:00	1000
11/1	16:15	1000
11/1	16:30	1000
11/1	16:45	1000
11/1	17:00	1000
11/1	17:15	1000
11/1	17:30	1000
11/1	17:45	1000
11/1	18:00	1000
11/1	18:15	1000
11/1	18:30	1000
11/1	18:45	1000

DATE	TIME	LOCATION
11/1	19:00	1000
11/1	19:15	1000
11/1	19:30	1000
11/1	19:45	1000
11/1	20:00	1000
11/1	20:15	1000
11/1	20:30	1000
11/1	20:45	1000
11/1	21:00	1000
11/1	21:15	1000
11/1	21:30	1000
11/1	21:45	1000



## FLATS - ONE ROUND EDGE

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT	THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
1/2	1.3/4	2.69	3/4	1.3/4	4.10
"	1.7/8	2.94	"	1.7/8	4.56
"	2	3.20	"	2	4.78
"	2.1/4	3.70	"	2.1/4	5.30
"	2.1/2	3.95	"	2.1/2	5.96
			"	2.3/4	6.50
			"	3	7.30
			"	3.1/4	7.75
5/8	1.3/4	3.40	7/8	2.3/4	7.50
"	1.7/8	3.76	"	3	8.50
"	2	3.98	"	3.1/4	9.00
"	2.1/4	4.50			
"	2.1/2	5.09			
"	2.3/4	5.50			
"	3	6.10			
"	3.1/4	6.20			

## FLATS - DOUBLE BEVEL EDGE

THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT	THICKNESS INCHES	WIDTH INCHES	WEIGHT LBS. PER FOOT
a	b		a	b	
5/8	1	2.08	3/4	1	2.50
"	1.1/8	2.34	"	1.1/8	2.81
"	1.1/4	2.60	"	1.1/4	3.13

## FLATS - SINGLE BEVEL EDGE SPECIAL GROOVED

SIZE: BASE	INCHES THICKNESS	TOP
a	b	c
7/8	7/16	5/8

# HALF ROUNDS



Width	Depth	Height	Weight
1.00	1.00	1.00	1.00
1.50	1.50	1.50	1.50
2.00	2.00	2.00	2.00

# HALF OVALS



Width	Depth	Height	Weight
1.00	1.00	1.00	1.00
1.50	1.50	1.50	1.50
2.00	2.00	2.00	2.00
2.50	2.50	2.50	2.50
3.00	3.00	3.00	3.00
3.50	3.50	3.50	3.50
4.00	4.00	4.00	4.00
4.50	4.50	4.50	4.50
5.00	5.00	5.00	5.00
5.50	5.50	5.50	5.50
6.00	6.00	6.00	6.00
6.50	6.50	6.50	6.50
7.00	7.00	7.00	7.00
7.50	7.50	7.50	7.50
8.00	8.00	8.00	8.00
8.50	8.50	8.50	8.50
9.00	9.00	9.00	9.00
9.50	9.50	9.50	9.50
10.00	10.00	10.00	10.00

# HALF OVALS



THIS IS THE LIST OF THE HALF OVALS AND HALF ROUNDS WHICH ARE IN THE STOCK OF THE COMPANY.



## CONVEX TYRE HOOPS



WIDTH  
INCHES

THICKNESS  
INCHES  
at  $\frac{1}{2}$  width

2.1/2      3/4  
"          7/8

2.3/4      3/4  
"          7/8

3          5/8  
"          3/4  
"          7/8  
"          1

3.1/2      5/8  
"          3/4  
"          7/8  
"          1

WIDTH  
INCHES

THICKNESS  
INCHES  
at  $\frac{1}{2}$  width

4          5/8  
"          3/4  
"          7/8  
"          1

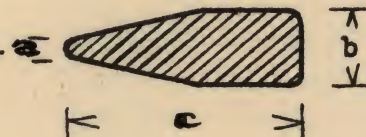
4.1/2      5/8  
"          3/4  
"          7/8  
"          1

5          3/4  
"          7/8  
"          1  
"          1.1/8

6          5/8  
"          3/4  
"          7/8  
"          1

CANCELLED - T. W. & S. LTD.

## FIRE BARS



SIZE:      INCHES

a          b          c  
3/8          1          3.1/4

CANCELLED - T. W. & S. LTD.

## SPECIAL TYRE SECTION



WIDTH  
INCHES

THICKNESS  
INCHES

6          1/2      3/8" radius on curved edges  
"          5/8      "      "      "      "      "  
"          3/4      "      "      "      "      "

CANCELLED - T. W. & S. LTD.





## BEVELLED STRIP



WIDTH OVERALL INCHES	MINIMUM THICKNESS INCHES
----------------------------	--------------------------------

3.1/8	.139
3.3/16	.139
3.1/4	.139
3.3/8	.139
4.1/16	.156

CANCELLED - I. W. & S. LTD.

## KNIFE IRON

$\wedge$   
 $b$   
 $\vee$



SIZE: INCHES

a b

2.1/16 x 1/2

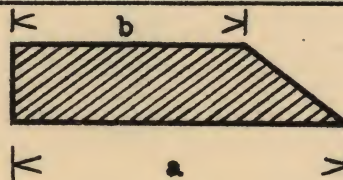
WEIGHT  
LBS. PER  
FOOT

1.716

CANCELLED - I. W. & S. LTD.

## BEVEL IRON

$\wedge$   
 $a$   
 $\vee$



SIZE: INCHES

a b c

2.1/8 x 1.7/16 x 1/2

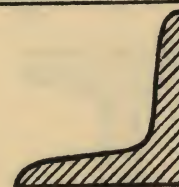
CANCELLED - I. W. & S. LTD.

# SOCKET STRIP AND FITTING - 2000

SOCKET NUMBER	SOCKET SIZE	SOCKET NUMBER	SOCKET SIZE
100	1.00	101	1.01
102	1.02	103	1.03
104	1.04	105	1.05
106	1.06	107	1.07
108	1.08	109	1.09
110	1.10	111	1.11
112	1.12	113	1.13
114	1.14	115	1.15
116	1.16	117	1.17
118	1.18	119	1.19
120	1.20	121	1.21
122	1.22	123	1.23
124	1.24	125	1.25
126	1.26	127	1.27
128	1.28	129	1.29
130	1.30	131	1.31
132	1.32	133	1.33
134	1.34	135	1.35
136	1.36	137	1.37
138	1.38	139	1.39
140	1.40	141	1.41
142	1.42	143	1.43
144	1.44	145	1.45
146	1.46	147	1.47
148	1.48	149	1.49
150	1.50	151	1.51
152	1.52	153	1.53
154	1.54	155	1.55
156	1.56	157	1.57
158	1.58	159	1.59
160	1.60	161	1.61
162	1.62	163	1.63
164	1.64	165	1.65
166	1.66	167	1.67
168	1.68	169	1.69
170	1.70	171	1.71
172	1.72	173	1.73
174	1.74	175	1.75
176	1.76	177	1.77
178	1.78	179	1.79
180	1.80	181	1.81
182	1.82	183	1.83
184	1.84	185	1.85
186	1.86	187	1.87
188	1.88	189	1.89
190	1.90	191	1.91
192	1.92	193	1.93
194	1.94	195	1.95
196	1.96	197	1.97
198	1.98	199	1.99



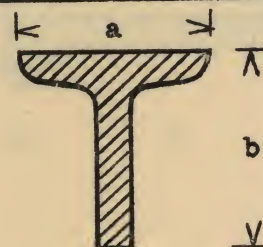
# ANGLES



SIZE:	INCHES	WEIGHT PER FOOT
1.1/4 x 1.1/4 x 3/16		1.45 lbs
" x " x 1/4		1.87 "
" x " x 5/16		2.28 "
" x " x 3/8		2.66 "
1.1/2 x 1.1/2 x 3/16		1.76 "
" x " x 1/4		2.29 "
" x " x 5/16		2.80 "
" x " x 3/8		3.28 "

SIZE:	INCHES	WEIGHT PER FOOT
1.3/4 x 1.3/4 x 1/4		2.71 lbs
" x " x 5/16		3.32 "
" x " x 3/8		3.91 "
2 x 2 x 1/4		3.12 "
" x " x 5/16		3.84 "
" x " x 3/8		4.53 "

# TEES



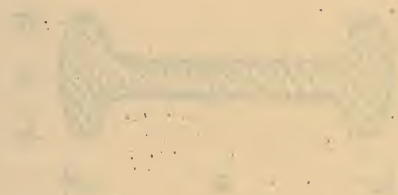
SIZE:	INCHES	WEIGHT PER FOOT
a b c		
1.1/2 x 1.1/2 x 3/16		1.45 lbs
" x " x 1/4		2.29 "
" x " x 5/16		2.80 "
" x " x 3/8		3.28 "

SIZE:	INCHES	WEIGHT PER FOOT
a b c		
1.3/4 x 1.3/4 x 1/4		2.71 lbs
" x " x 5/16		3.32 "
" x " x 3/8		3.91 "
2 x 2 x 1/4		3.12 "
" x " x 5/16		3.84 "
" x " x 3/8		4.53 "



# BEAM SECTION

FLANGE	WEB	DEPTH	AREA
10.0	1.0	11.0	11.0
10.0	1.0	11.0	11.0
10.0	1.0	11.0	11.0



# BEAM SECTION

FLANGE	WEB	DEPTH	AREA
10.0	1.0	11.0	11.0
10.0	1.0	11.0	11.0
10.0	1.0	11.0	11.0



WEIGHTS OF ROUND IRON BARS  
in pounds per lineal foot

SIZE INCHES	WEIGHT POUNDS	SIZE INCHES	WEIGHT POUNDS
3/8	.368	1.7/8	9.204
7/16	.501	2	10.472
1/2	.654	2.1/8	11.82
9/16	.828	2.1/4	13.25
5/8	1.023	2.3/8	14.77
11/16	1.237	2.1/2	16.36
3/4	1.473	2.5/8	18.04
13/16	1.728	2.3/4	19.80
7/8	2.004	2.7/8	21.64
15/16	2.301	3	23.56
1	2.618	3.1/8	25.57
1.1/16	2.956	3.1/4	27.65
1.1/8	3.313	3.3/8	29.82
1.3/16	3.692	3.1/2	32.07
1.1/4	4.091	3.5/8	34.40
1.3/8	4.950	3.3/4	36.82
1.1/2	5.890	3.7/8	39.18
1.5/8	6.913	4	41.89
1.3/4	8.018		

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WEIGHTS OF SQUARE IRON BARS  
in pounds per lineal foot

SIZE INCHES	WEIGHT POUNDS	SIZE INCHES	WEIGHT POUNDS
3/8	.469	1.1/4	5.208
7/16	.638	1.3/8	6.302
1/2	.833	1.1/2	7.500
9/16	1.055	1.5/8	8.802
5/8	1.302	1.3/4	10.208
11/16	1.576	1.7/8	11.719
3/4	1.875	2	13.333
13/16	2.201	2.1/4	16.87
7/8	2.552	2.1/2	20.83
15/16	2.930	2.3/4	25.21
1	3.333	3	30.00
1.1/8	4.219		

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✓  
✓  
✓  
✓  
✓  
✓

1870-1871 1871-1872 1872-1873 1873-1874 1874-1875 1875-1876

1876-1877 1877-1878 1878-1879 1879-1880 1880-1881 1881-1882

1882-1883 1883-1884 1884-1885 1885-1886 1886-1887 1887-1888

1888-1889 1889-1890 1890-1891 1891-1892 1892-1893 1893-1894

1894-1895 1895-1896 1896-1897 1897-1898 1898-1899 1899-1900

1900-1901 1901-1902 1902-1903 1903-1904 1904-1905 1905-1906

1906-1907 1907-1908 1908-1909 1909-1910 1910-1911 1911-1912

1912-1913 1913-1914 1914-1915 1915-1916 1916-1917 1917-1918

1918-1919 1919-1920 1920-1921 1921-1922 1922-1923 1923-1924



# MILLIMETRES - INCHES

Milli- metres	Inches	Milli- metres	Inches	Milli- metres	Inches	Milli- metres	Inches
1	0.04	38	1.50	75	2.95	220	8.66
2	0.08	39	1.53	76	2.99	230	9.05
3	0.12	40	1.57	77	3.03	240	9.45
4	0.16	41	1.61	78	3.07	250	9.84
5	0.20	42	1.65	79	3.11	260	10.24
6	0.24	43	1.68	80	3.15	270	10.63
7	0.27	44	1.73	81	3.19	280	11.02
8	0.31	45	1.77	82	3.23	290	11.42
9	0.35	46	1.81	83	3.27	300	11.81
10	0.39	47	1.85	84	3.31	310	12.20
11	0.43	48	1.89	85	3.35	320	12.60
12	0.47	49	1.92	86	3.39	330	12.99
13	0.51	50	1.97	87	3.42	340	13.38
14	0.55	51	2.01	88	3.46	350	13.79
15	0.59	52	2.05	89	3.50	360	14.17
16	0.63	53	2.09	90	3.54	370	14.57
17	0.67	54	2.13	91	3.58	380	14.96
18	0.71	55	2.16	92	3.62	390	15.35
19	0.75	56	2.20	93	3.66	400	15.75
20	0.79	57	2.24	94	3.70	410	16.14
21	0.83	58	2.28	95	3.74	420	16.53
22	0.87	59	2.32	96	3.78	430	16.93
23	0.90	60	2.36	97	3.82	440	17.32
24	0.94	61	2.40	98	3.86	450	17.72
25	0.98	62	2.44	99	3.90	460	18.11
26	1.02	63	2.48	100	3.94	470	18.50
27	1.06	64	2.52	110	4.33	480	18.90
28	1.10	65	2.56	120	4.72	490	19.29
29	1.14	66	2.60	130	5.12	500	19.68
30	1.18	67	2.64	140	5.51	600	23.62
31	1.22	68	2.68	150	5.90	700	27.56
32	1.26	69	2.72	160	6.30	800	31.50
33	1.30	70	2.75	170	6.69	900	35.43
34	1.34	71	2.79	180	7.09	1 Metre	39.37
35	1.38	72	2.83	190	7.48	2 "	78.74
36	1.42	73	2.87	200	7.87	3 "	118.11
37	1.46	74	2.91	210	8.27	4 "	157.48





# DECIMAL EQUIVALENTS

$1/64$	.0156	$33/64$	.5156
$1/32$	.0313	$17/32$	.5313
$3/64$	.0469	$35/64$	.5469
$1/16$	.0625	$9/16$	.5625
$5/64$	.0781	$37/64$	.5781
$3/32$	.0938	$19/32$	.5938
$7/64$	.1094	$39/64$	.6094
$1/8$	.125	$5/8$	.625
$9/64$	.1406	$41/64$	.6406
$5/32$	.1563	$21/32$	.6563
$11/64$	.1719	$43/64$	.6719
$3/16$	.1875	$11/16$	.6875
$13/64$	.2031	$45/64$	.7031
$7/32$	.2188	$23/32$	.7188
$15/64$	.2344	$47/64$	.7344
$1/4$	.25	$3/4$	.75
$17/64$	.2656	$49/64$	.7656
$9/32$	.2813	$25/32$	.7813
$19/64$	.2969	$51/64$	.7969
$5/16$	.3125	$13/16$	.8125
$21/64$	.3281	$53/64$	.8281
$11/32$	.3438	$27/32$	.8438
$23/64$	.3594	$55/64$	.8594
$3/8$	.375	$7/8$	.875
$25/64$	.3906	$57/64$	.8906
$13/32$	.4063	$29/32$	.9063
$27/64$	.4219	$59/64$	.9219
$7/16$	.4375	$15/16$	.9375
$29/64$	.4531	$61/64$	.9531
$15/32$	.4688	$31/32$	.9688
$31/64$	.4844	$63/64$	.9844
$1/2$	.5	1	1.00





Bars and sections will be rolled as near as possible to specified weights and dimensions, but a deviation of  $2\frac{1}{2}\%$  under or over must be accepted, unless otherwise agreed.

Every care has been taken in the compiling of this schedule, but it is issued without any liability. Where weights per foot are mentioned these must be understood to be approximate only, and although they may be considered generally reliable, no allowances will be made for variations which may occur.

THE UNIVERSITY OF CHICAGO  
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1000 S. MICHIGAN AVE.  
CHICAGO, ILL. 60607

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